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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,059	10/02/2003	Kohei Kato	056205.50339C1 7754		
23911	7590 04/06/2004		EXAMINER		
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP			THOMAS, COURTNEY D		
P.O. BOX 14		,	ART UNIT	PAPER NUMBER	
WASHINGT	ON, DC 20044-4300		2882		
				D. M	

DATE MAILED: 04/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			M/
	Application No.	Applicant(s)	
Office Action Summer	10/676,059	KATO ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAN INC DATE of this communication onn	Courtney Thomas	2882	
The MAILING DATE of this communication appeared for Reply	ears on the cover sheet with	tne correspondence at	uaress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply within the statutory minimum of thirty (3 ill apply and will expire SIX (6) MONTH cause the application to become ABAN	y be timely filed 60) days will be considered time S from the mailing date of this of DONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>02 Octoor</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under Expression.	action is non-final. ice except for formal matters	· ·	e merits is
Disposition of Claims			
4) ☐ Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or			
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer of the correction of the correction of the original transfer of the correction of the correctio	epted or b) objected to by drawing(s) be held in abeyance on is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 C	- '
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in App ity documents have been re i (PCT Rule 17.2(a)).	lication No ceived in this National	I Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/2/03.		nmary (PTO-413) Aail Date rmal Patent Application (PT	O-152)

DETAILED ACTION

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Claim Objections

1. Claims 1, 2, 4, 5, 9, 11, 13 and 15 are objected to because of the following informalities:

2. Claim 1, lines 1 and 2 recite:

3. "A multi-leaf collimator comprising leaf plate driving bodies, each including a plurality

of movable leaf plates and provided respectively on one side and the other side ..."

4. Examiner notes that the use of the phrase "the other side" lacks antecedent basis. The first

few lines do not properly set for the structure of the device, since it is unclear what is meant by:

"on one side and the other side."

5. Claim 1, lines 3-6 continues: "... the plurality of leaf plates of said leaf plate driving

body on one side and the plurality of leaf plates of said leaf plate driving body on the other

side being disposed in an opposing relation to form an irradiation field of a radiation beam

between the opposing leaf plates ..."

6. Examiner notes that claim 1, lines 3-6, conveys a clearer illustration of the claimed

structure. However, Examiner notes that the phrase "said leaf plate driving body" implies a

singular element, while lines 1 and 2 suggests the presence of more than one. Examiner notes

that in the case of a multi-leaf collimator have two leaf plate driving bodies, the phrase "said leaf

plate driving body" (on the one side and said leaf plate driving body on the other side being

disposed in an opposing relation to form an irradiation field of a radiation beam between the

opposing leaf plates) would not cause ambiguities related to antecedence or agreement between

the number of elements recited in the claim.

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7. Examiner suggests that claim 1, lines 9 and 10, be rewritten as follows: "... portion provided respectively at each of said plurality of leaf plates, and <u>a</u> driving force transmitting/cutoff device for transmitting <u>a</u> driving force..."

- 8. Claim 1, lines 12 and 13 recite: "... moving said plurality of gear portions along the other direction across said one direction and engaging them with said rotating device ..."
- 9. Examiner notes there is no antecedence for the phrase "the other direction." Examiner additionally notes the phrase "along the other direction across said one direction" is unclear.
- 10. Examiner suggests that claim 1, line 15 be rewritten as follows: "... gear portion of said selected leaf plate [with] <u>from</u> said rotating device."
- 11. For brevity, Examiner notes the aforementioned objections are applicable to independent claims 2, 4, 5, 9, 11, 13 and 15.
- 12. Appropriate correction is required.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Art Unit: 2882

Claims 1-15 are provisionally rejected under the judicially created doctrine of 15. obviousness-type double patenting as being unpatentable over claims 1-20 of copending Application No. 09/943,385. Although the conflicting claims are not identical, they are not patentably distinct from each other because Copending Application 09/943,385 claims a) a multi-leaf collimator having leaf plate driving bodies, each including a plurality of movable leaf plates; the plurality of leaf plates disposed in an opposing relation to form an irradiation field of a radiation beam between the opposing leaf plates; wherein each of said leaf plate driving bodies comprises one rotating device for engaging with the plurality of leaf plates; and a driving force transmitting/;cutoff device for transmitting a driving force of the rotating device (contrast independent claims 1, 2, 13 and 14 of co-pending application 09/943,385 with independent claims 1, 2, 9 and 11 of instant application 10/676,059) and b) a medical system including an accelerator comprising a multi-leaf collimator as described above (contrast independent claims 4, 5, 6, 7, 16 and 17 of co-pending application 09/943,385 with independent claims 4, 5, 13 and 15 of instant application 10/676,059).

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Courtney Thomas whose telephone number is (571) 272-2496. The examiner can normally be reached on M - F (9 am - 5 pm).

Application/Control Number: 10/676,059

Art Unit: 2882

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ed Glick can be reached on (571) 272 2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Courtney Thomas

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